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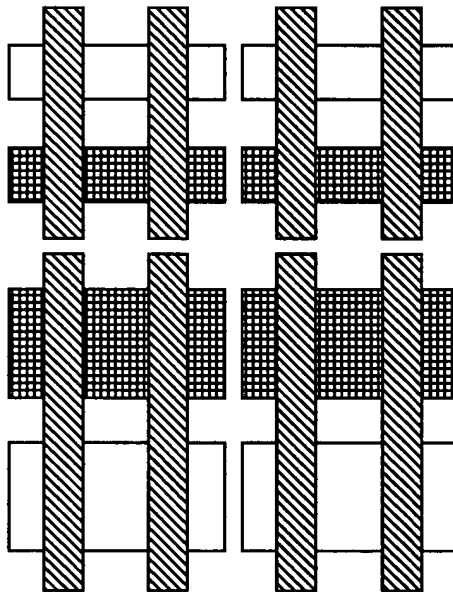
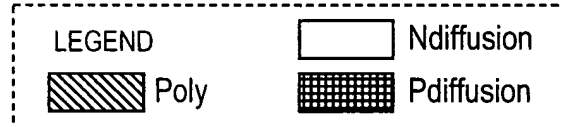
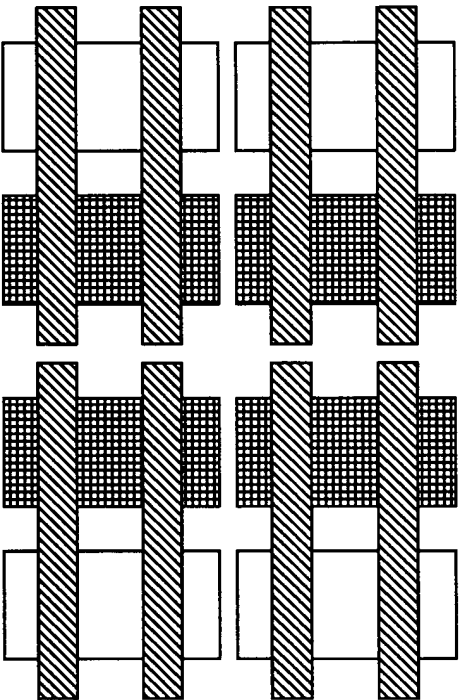
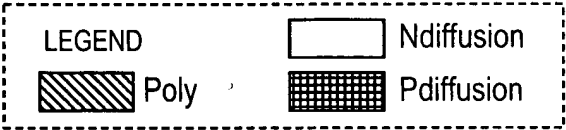


FIG. 1



Traditional Approach

FIG. 2

REPLACEMENT SHEET

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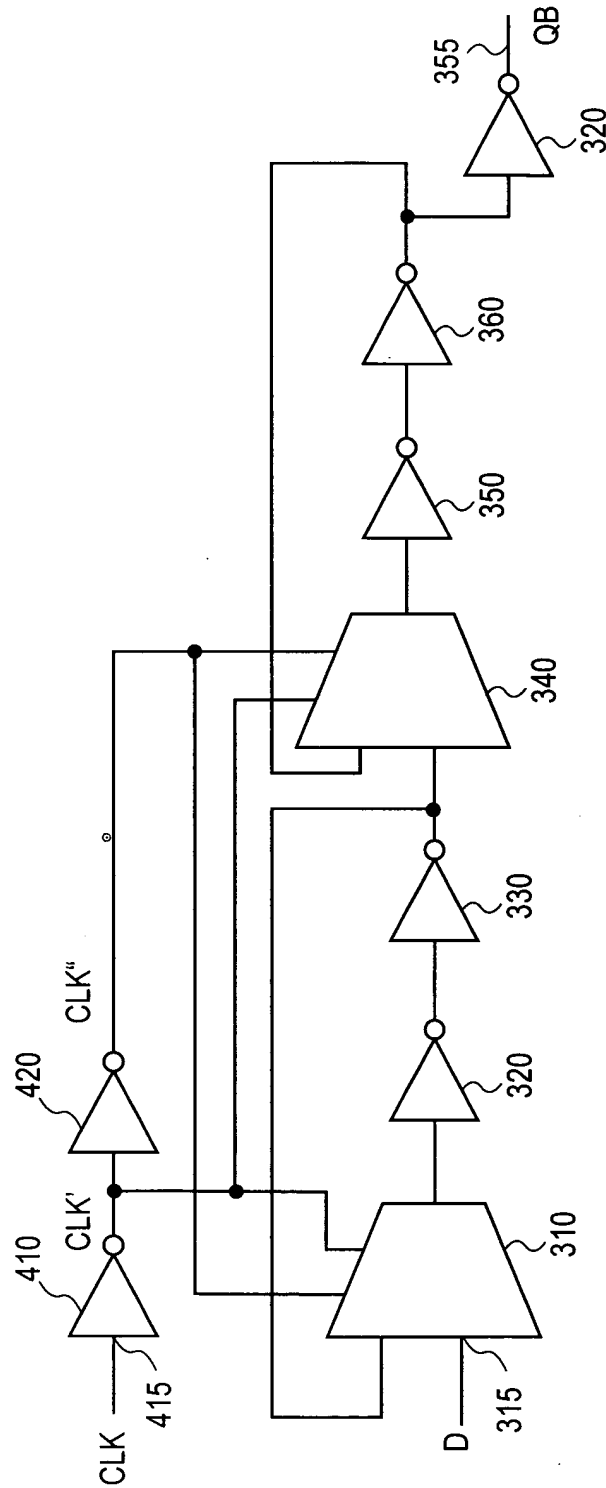
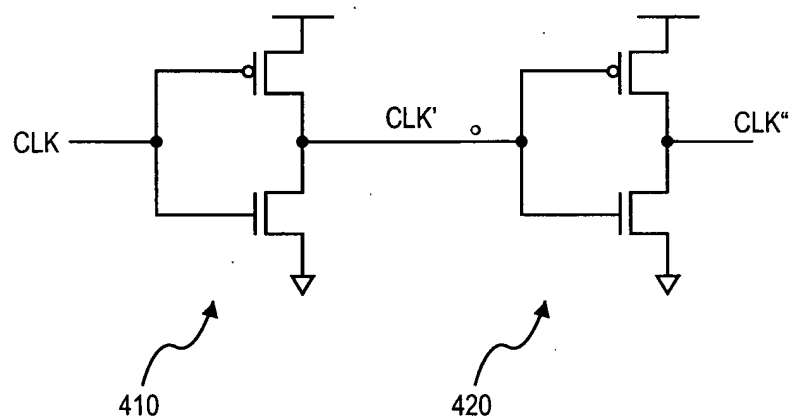


FIG. 3

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**FIG. 4**

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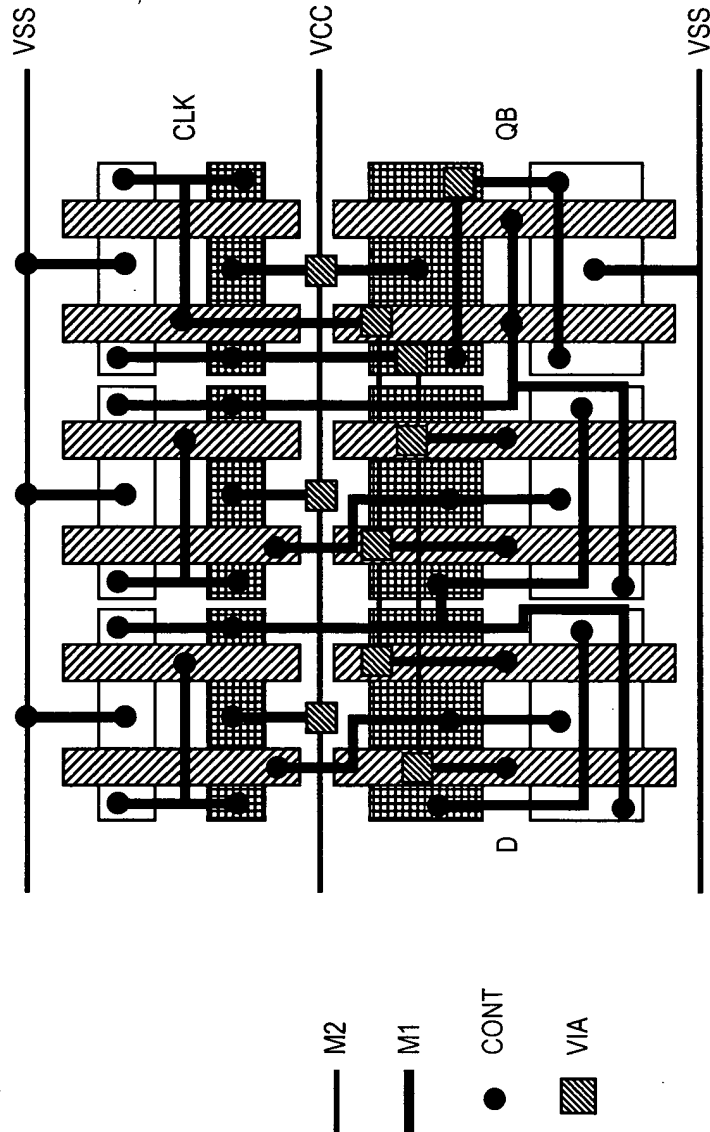


FIG. 5

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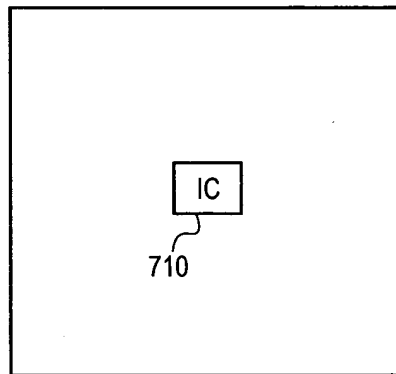
Table 1

Name	Clock Pin Power	Notes
Capacitance Improved	0.06 pJ	FIG. 2
Si Arc	0.13 pJ	SiArc CBA
Traditional	0.15 pJ	FIG. 2

pJ = pico joules

**FIG. 6**

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700

**FIG. 7**